

Claims

1. Portable communication device for at least mono-directional communication with a terminal, comprising a micro-module including a chip that comprises an antenna allowing the micro-module to communicate with a terminal when the antenna is placed in the immediate vicinity of the terminal, the device being characterized in that it comprises a reader receiving the removable micro-module, said antenna being held by said reader such that the micro-module is removable relative to the antenna.

2. Portable device in accordance with claim 1, characterized in that the micro-module contains external authentication marking elements.

3. Portable device in accordance with claim 1, characterized in that the reader comprises a display and keypad capable of interacting with the chip card.

4. Portable device in accordance with claim 1, characterized in that the reader comprises a USB connector capable of connecting the contacts of the micro-module to an external appliance.

5. Portable device in accordance with claim 1, characterized in that the reader comprises a block for communication by radio frequency, enabling the chip card to communicate with an external appliance.

6. Portable device in accordance with claim 1, characterized in that the reader incorporates a large size memory component.

7. Portable device in accordance with claim 5, characterized in that the RF means of communication is of the type 14443 type A.

8. Portable device in accordance with claim 5, characterized in that the RF means of communication is of the type 14443 type B.

9. Portable device in accordance with claim 5, characterized in that the RF means of communication is of low range.

10. Portable device in accordance with claim 5, characterized in that the RF means of communication is of medium range.

11. Portable device in accordance with claim 1, characterized in that it has an audio or visual man/machine interface capable of transmitting a discharge in response to the establishment of a communication with an external appliance.

5 12. Portable device in accordance with claim 11, characterized in that said device for transmission of a discharge is a LED (light-emitting diode).

13. Portable device in accordance with claim 11, characterized in that said device for transmission of a discharge is a micro-buzzer.

10 14. Portable device in accordance with claim 11, characterized in that said device for transmission of a discharge is a vibrator.

15. Portable device in accordance with claim 11, characterized in that said device for transmission of a discharge is a display.

15 16. Portable device in accordance with any one of the preceding claims, characterized in that it incorporates an independent source of electrical energy rechargeable by an energy transfer device without galvanic contact.

20 17. Portable device in accordance with claim 16, characterized in that the rechargeable source of electrical energy uses a magnetic induction as a medium for the transfer of energy.

18. Portable device in accordance with claim 16, characterized in that the rechargeable source of electrical energy uses light as the medium for transferring energy and photovoltaic cells for a conversion of energy.

25 19. Portable device in accordance with claim 16, characterized in that the rechargeable source of electrical energy uses an electromagnetic field as the medium for transferring energy and an antenna as the energy conversion system.

30 20. Portable device in accordance with claim 1, characterized in that it incorporates a switch and in that the RF transmission can be established only by activating a switch placed on the antenna.

21. Portable device in accordance with claim 1, characterized in that the RF means of communication is designed so as to be inactive and to consume none or very little energy before the device enters a field in the immediate vicinity of an external appliance.